

Review of the species of Fam. Coccinellidae (Coleoptera) in the collections of the National Museum of Natural History in Sofia

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The paper contains a systematic list of: a) all ladybird species and subspecies known in Bulgaria; b) all identified Coccinellidae from countries other than Bulgaria, deposited in the collections of NMNH - Sofia. Most of them have been collected during the expeditions of the Museum in various continents. Following numbers of species-level taxa appear as new for corresponding countries: Bulgaria - 4; Republic of Macedonia, Albania, Turkey, Nepal, Thailand and Vietnam - 2 for each; North Korea - 3; India, Sri Lanka and Indonesia - 1 for each.

As a whole the list includes following data on 117 species and subspecies of Coccinellidae kept in the NMNH - Sofia: name, author and year of description, the localities, the collector and the specialist who has identified the species (when different from the present author).

The author is deeply grateful to all colleagues who entrusted their materials to her for identification.

List of the species and subspecies of ladybirds (Coccinellidae) in the National Museum of Natural History - Sofia

I. Subfamily EPILACHNINAE

Henosepilachna argus argus (Geoffroy, 1762) - Bulgaria (JORDANOVA, 1987).

Henosepilachna elateri elateri (Rossi, 1794) - European Turkey, Tekir Dag, 5.V.1903, leg. Iv. Buresch, 1 ex. **New for Turkey.**

Henosepilachna vigintioctomaculata (Motsch., 1857) - North Korea: Jangkang-do Botheri, 1000 m, 24.VIII. 1977, leg. M. Josifov, 11 ex.; N. Korea, 15 km West of Vonsan, 10.VIII. 1977, leg. M. Josifov, 1 ex.; N. Korea, Kangwon Prov., Kumgang-san, 100-800 m, 4.VI. 1987, leg. P. Beron.

Henosepilachna vigintioctopunctata (Fabr., 1775) - Nepal, Betrawati, 600-1000 m, 21.VII. 1984, leg. P. Beron, 1 ex.; Vietnam, Hanoi, 21-22.IV.1989, leg. Z. Hubenov, 2 ex.

Epilachna signatipennis (Boisd., 1835) - Papua New Guinea, Madang Prov., May 1994, leg. M. Leponce, 1 ex.

Subcoccinella vigintiquatuorpunktata (L., 1758) - Bulgaria (NEDELKOV, 1909).

Cynegetis impunctata (L., 1767) - Bulgaria (NEDELKOV, 1909).

II. Subfamily COCCIDULINAE

Coccidula scutellata (Herbst, 1783) - Bulgaria (NEDELKOV, 1909).

C. rufa (Herbst, 1783) - Bulgaria (JOAKIMOV, 1904).

Rhyzobius litura (Fabr., 1787) - Poland, det. R. Bielawski.

Rh. chrysomeloides (Herbst, 1783) - Germany, det. R. Bielawski.

III. Subfamily SCYMNINAE

Stethorus punctillum Weise, 1891 - Bulgaria (ROUBAL, 1932).

Stethorus gilvifrons Mulsant, 1851 - Bulgaria (JORDANOVA, 1986).

Clitostethus arcuatus (Rossi, 1794) - Bulgaria (JORDANOVA, 1986).

Scymnus (Scymnus) apetzi Mulsant, 1846 - Bulgaria (JORDANOVA, 1986).

S. (S.) pallipediformis apetzoides Capra et Fürsch, 1967 - Bulgaria (JORDANOVA, 1986).

S. (S.) frontalis (Fabr., 1787) - Bulgaria (NEDELKOV, 1909).

S. (S.) quadriguttatus Capra, 1924 - Bulgaria (JORDANOVA, 1990).

S. (S.) mimulus Capra et Fürsch, 1967 - Bulgaria (JORDANOVA, 1983).

S. (S.) interruptus (Goeze, 1777) - Bulgaria (BIELAWSKI, GIESE, 1964).

S. (S.) abietis Paykull, 1798 - Bulgaria (JORDANOVA, 1986).

S. (S.) nigrinus Kugellan, 1794 - Bulgaria (JORDANOVA, 1983).

S. (S.) rubromaculatus (Goeze, 1777) - Bulgaria (JOAKIMOV, 1904).

S. (S.) femoralis Gyll., 1827 - Bulgaria (JORDANOVA, 1991).

S. (S.) mesasiaticus Savoyskaya, 1968 - Bulgaria (JORDANOVA, 1991).

S. (S.) doriai Capra, 1924 - Bulgaria (FÜRSCHE, 1962).

S. (P.) auritus Thunb., 1795 - Bulgaria (JORDANOVA, 1983).

S. (P.) suturalis Thunb., 1795 - Bulgaria (JORDANOVA, 1983).

S. (P.) ferrugatus (Moll, 1784); Bulgaria, Pancharevo, 15.V.1993, leg. V. Jordanova, 1 ex. **New for Bulgaria.**

S. (P.) impexus Mulsant, 1850 - Bulgaria, Kresna near Gara Pirin, 29.VII. 1973, leg. M. Josifov, 1 ex. **New for Bulgaria.**

S. (P.) subvillosus (Goeze, 1777) - Bulgaria (JORDANOVA, 1983).

S. (P.) fraxini Mulsant, 1850 - Bulgaria (MARKOVICH, 1909).

S. (Neopullus) haemorrhoidalis Herbst, 1797 - Bulgaria (ROUBAL, 1932).

S. (N.) ater Kugell., 1974 - Bulgaria, Harmanli, 31.V.1976, leg. et det. R. Bielawski, 1 ex. **New for Bulgaria.**

S. (Mimopullus) flagellisiphonatus Fürsch, 1969 - Bulgaria (JORDANOVA, 1995); N. Korea, Pyongyang, 15.VIII.1982, leg. P. Beron et Al. Popov, 2 ex. **New for N. Korea.**

Nephus (Nephus) ludy Weise, 1879 - Bulgaria (JORDANOVA, 1986).

N. (N.) quadrimaculatus quadrimaculatus Herbst, 1783 - Bulgaria (JORDANOVA, 1986).

- N. (Bipunctatus) bipunctatus* Kugell., 1974 - Bulgaria (ROUBAL, 1932).
N. (B.) nigricans Weise, 1879 - Bulgaria (FÜRSCH, 1965).
Pseudoscymnus sylvaticus Levis, 1896 - N. Korea, Suyangsan, 300 m, 28.VIII.1982, leg. Al. Popov, 1 ex.
Cryptogonus nepalensis Bielaw., 1972 - Nepal, v. Chomru, Dhaulagiri Zone, 1500-1800 m, 10.X.1984, leg. P. Beron et St. Andreev, 1 ex.
C. himalayensis Kapur, 1958 - Nepal, v. Chomru, Dhaulagiri Zone, 1500-1800 m, 10.X.1984, leg. P. Beron et St. Andreev, 1 ex.
C. quadriguttatus (Weise, 1985) - Nepal, Pokhara, 900 m, 31.VIII.1981, leg. P. Beron, 2 ex. **New for Nepal.**
Novius cruentatus (Mulsant, 1846) - Germany, det. R. Bielawski, 1 ex.
Hyperaspis campestris (Herbst, 1783) - Bulgaria (CANEPARI, FÜRSCH, KREISSL, 1985); Albania, v. Boga, Distr. Shkoder, 1000-1100 m, 5.IX.1993, leg. P. Beron et B. Petrov, 1 ex. **New for Albania.**
H. reppensis quadrimaculata Redt., 1843 - Bulgaria (CANEPARI, FÜRSCH, KREISSL, 1985).
H. concolor Suffr., 1843 - Bulgaria (JORDANOVA, 1991).
H. femorata (Motsch., 1837) - Bulgaria (JORDANOVA, 1983).
H. asiatica Levis, 1896 - N. Korea, Pyongyang, 18.VIII.1982, leg. P. Beron et Al. Popov, 1 ex.

IV. Subfamily CHILOCORINAE

- Chilocorus kuwanae* Silv., 1909 - N. Korea, Thesong near Kanson, 13-17.VIII.1977, leg. M. Josifov.
C. bipustulatus (Linn., 1758) - Bulgaria (JOAKIMOV, 1904).
C. renipustulatus (Scriba, 1790) - Bulgaria (JORDANOVA, 1987).
C. rubidus Hope, 1831 - N. Korea: Tesong-san near Phjonyang, 5.VIII.1977, leg. M. Josifov, 1 ex.; N. Korea, Pyongyang, 8.VIII.1982, leg. P. Beron et Al. Popov, 1 ex.
Exochomus nigromaculatus (Goeze, 1777) - Bulgaria (NEDELKOV, 1909).
Brumus quadripustulatus (Linn., 1758) - Bulgaria (NEDELKOV, 1909).
B. mongol (Barovsky, 1922) - N. Korea, Sujangsan, 27.IX.1978, leg. Al. Popov, 1 ex.
B. cedri (Schalberg, 1913) - Bulgaria (KOVÁŘ, 1988).
Platynaspis luteorubra (Goeze, 1777) - Bulgaria (NEDELKOV, 1909).

V. Subfamily COCCINELINAE

- Adalia decempunctata* (Linn., 1758) - Bulgaria (MARKOVICH, 1904); Rep. Macedonia, Galichitsa, 1000-1100 m, 18.VI.1994, leg. M. Langurov and J. Kolarov, 9 ex.
A. bipunctata bipunctata (Linn., 1758) - Bulgaria (JOAKIMOV, 1899).
Coccinella septempunctata septempunctata Linn., 1758 - Bulgaria (JOAKIMOV, 1899); Albania, v. Boga, Distr. Skoder, 1000-1100 m, 5-9.VI.1993, leg. P. Beron, 1 ex.; Rep. of Macedonia, Dren Mts., Belovojide, 650 m, 17.VI.1994, leg. J. Kolarov, 5 ex.
C. hieroglyphica hieroglyphica Linn., 1758 - Bulgaria (JORDANOVA, 1987).

C. hieroglyphica mannerheimi Muls., 1850 - N. Korea, Jangkang-do Bath-ri, 1000-1200 m, 24 - 29.VIII.1977, leg. M. Josifov, 4 ex.

C. magnifica Radt., 1843 - Bulgaria (JOAKIMOV, 1904).

C. quinquepunctata Linn., 1758 - Bulgaria (JOAKIMOV, 1904).

C. transversalis Fabr., 1781 - Nepal, Trisuli Basar, 560 m, 10.VII.1981, leg. P. Beron, 1 ex.; Vietnam, Langson Prov., 88-103 km. from Hanoi, 21.III.1989, leg. P. Beron, 1 ex.; Thailand, Phuket town, 16.XI.1984, leg. P. Beron et S. Andreev, 1 ex.

New for Nepal, Vietnam and Thailand.

C. luteopicta Muls., 1866 - Nepal, Langtang, 3300-3500 m, 17.IX.1984, leg. P. Beron et S. Andreev, 1 ex.; Nepal, Ama Dablam, 4400-4600 m, 17.X.1987, leg. P. Beron, 1 ex.; Nepal, Sagarmatha Nat. Park, from the High Bridge to Pangboche, 3600-3900 m, 23.X.1987, leg. P. Beron, 1 ex.; Nepal, from Jumbesi to Taktor, 2750-3000 m, 14.XI.1987, leg. P. Beron, 1 ex.

C. transversoguttata Fald., 1855 - Mexico, Autzingo, 11.X.1993, leg. J. M. Pasteels, 1 ex.

C. (Neococcinella) undecimpunctata undecimpunctata Linn., 1758 - Bulgaria (JOAKIMOV, 1904).

Coccinula quatuordecimpustulata quatuordecimpustulata (Linn., 1758) - Bulgaria (JOAKIMOV, 1904).

C. sinuatomarginata (Fald., 1837) - Bulgaria (JORDANOVA, 1983); Albania, Pelombasi, 2.VI.1994, leg. V. Sakaljan, 1 ex.

Oenopia conglobata (Linn., 1958) - Bulgaria (NEDELKOV, 1909); India, Srinagar, 1740 m, 1.IX.1981, leg. P. Beron, 1 ex. **New for India.**

O. lyncea agnata Rosenh., 1846 - Bulgaria (JORDANOVA, 1979); Rep. of Macedonia, Galichitsa, 1000-1100 m, 18.VI.1994, leg. M. Langurov, 1 ex.; Galichitsa, Mt. Trpejca, 900 m, 31.V.1995, 1 ex. **New for Rep. of Macedonia.**

O. impustulata impustulata (Linn., 1767) - Bulgaria (MARKOVICH, 1909).

O. oncina oncina (Cliv., 1808) - Bulgaria (JORDANOVA, 1987).

O. sauzeti Mils., 1866 - Nepal, Betrawati, 600-1000 m, 21.VII.1981, leg. P. Beron, 1 ex.; Nepal, v. Chomru, 1500-1800 m, 10.X.1984, leg. P. Beron et S. Andreev, 2 ex.

O. sexaerata Muls., 1853 - Nepal, Naudanda, Nepa, 9.VIII.1981, leg. P. Beron, 1 ex.

Harmonia quadripunctata (Potopp., 1763) - Bulgaria (NEDELKOV, 1909).

H. axyridis (Pallas, 1773) - N. Korea, Thesong near Kanson, 13-17.VIII.1977, leg. M. Josifov, 1 ex.; N. Korea, Thesong, 23.IX.1978, leg. Al. Popov et K. Kumanski, 2 ex.; N. Korea, Suyangsan, 27.IX.1978, leg. Al. Popov et K. Kumanski, 1 ex.; N. Korea, Suyangsan, 300 m, 28.VIII.1982, leg. P. Beron et Al. Popov, 5 ex.; China, Veingsoo, 20.VI.1987, leg. P. Beron, 3 ex.

H. octomaculata (Fabr., 1781) - Sri Lanka, Polonaruwa, 23.XI.1984, leg. P. Beron et S. Andreev, 2 ex., det. Ivo Kovar. **New for Sri Lanka.**

H. dimidata (Fabr., 1781) - Nepal, Betrawati, 600-1000 m, 21.VII.1981, leg. P. Beron, 3 ex.; Nepal, Pokhara, 900 m, 31.VIII.1981, leg. P. Beron, 1 ex.

Myrrha octodecimguttata octodecimguttata (Linn., 1758) - Bulgaria

(BIELAWSKI, GIESE, 1964); Turkey, Aladag Mts., 1400-1800 m, 28.VI.1996, leg. B. Georgiev, 1 ex. **New for Turkey.**

Sospita (s. str.) *vigintiguttata* Linn., 1758 - Bulgaria (JOAKIMOV, 1904).

S. (Myzia) oblongoguttata oblongoguttata (Linn., 1758) - Bulgaria (NEDELKOV, 1909).

S. (M.) oblongoguttata nipponica (Yassa, 1973) - N. Korea, dam Jongphun, 29.IX.1978, leg. Al. Popov et K. Kumanski, 1 ex.; N. Korea, Pyongyang, Myohyangsan, 14.VIII.1982, leg. P. Beron et Al. Popov, 2 ex. **New subspecies for N. Korea.**

Calvia (Anisocalvia) quatuordecimguttata (Linn., 1758) - Bulgaria (JOAKIMOV, 1904); Albania, v. Boga, Distr. Shkoder, 1000-1100 m, 3 - 9.VI.1993, P. Beron et B. Petrov, 1 ex. **New for Albania.**

C. (A.) quinquedecimguttata quinquedecimguttata (Fabr., 1776) - Bulgaria (HORION, 1961).

C. (s. str.) decemguttata (Linn., 1767) - Poland; N. Korea, Pyongyang, Myohyangsan, 17.VIII.1982, leg. P. Beron et Al. Popov, 4 ex.

Propylaea quatuordecimpunctata (Linn., 1758) - Bulgaria (MARKOVICH, 1904); Rep. of Macedonia, Galichitsa, 1000-1100 m, 18.VI.1994, leg. M. Langurov et J. Kolarov, 1 ex.

P. fallax Jabl. - Khnz., 1977 - Nepal, Trisuli Basar, 560 m, 10.VII.1981, leg. P. Beron, 2 ex.

P. japonica (Thunb., 1781) - Vietnam, Hanoi, 21-22.IV.1989, leg. Z. Hubenov, 2 ex.

Pania luteopustulata (Muls., 1850) - N. Korea, Pyongyang, 6.VIII.1982, leg. P. Beron et Al. Popov, 4 ex.; N. Korea, Suyangsan, 27.IX.1978, leg. Al. Popov, 1 ex.

Anatis ocellata (Linn., 1758) - Bulgaria (ROUBAL, 1932); N. Korea, Hesan, 1000 m, 23.VIII.1977, leg. M. Josifov, 1 ex.

Hippodamia (H.) tredecimpunctata (Linn., 1758) - Bulgaria (JOAKIMOV, 1904); N. Korea, Pyongyang, 15.VIII.1982, leg. P. Beron et Al. Popov, 1 ex.

H. (H.) septemmaculata (DeGeer, 1775) - Bulgaria (NEDELKOV, 1909).

H. (Adonia) variegata (Goeze, 1777) - Bulgaria (NEDELKOV, 1909); Rep. of Macedonia, Shar Mts., 1480 m, h. Leshnitsa, 17.VII.1995, leg. V. Sakaljan, 1 ex.; N. Korea, Nampho, 2.IX.1977, leg. M. Josifov, 2 ex.

H. (Semiadalia) notata Laich., 1781 - Bulgaria (JORDANOVA, 1987).

H. (S.) undecimnotata (Schneid., 1792) - Bulgaria (HORION, 1961); Rep. of Macedonia, Shar Mts., Leshnitsa hut, 1480 m, leg. V. Sakaljan, 1 ex.; N. Korea, Jangkang-do Dehangdan, 1200 m, 27.VII.1977, leg. M. Josifov, 1 ex. **New for N. Korea.**

H. (Asemiadalia) heydeni (Weise, 1892) - Nepal, Trisuli Basar, 560 m, 10.VII.1981, leg. P. Beron, 1 ex.

H. (Adaliopsis) alpina alpina (Villa, 1835) - Bulgaria, Kresnensko defile, 10.IV.1922, leg. Dr. Ivan Buresch, 1 ex., det. R. Bielawski. **New for Bulgaria.**

H. (A.) alpina redtenbacheri Capra, 1928 - Rep. of Macedonia, Shar Mts., Ljuboten, 11.VII.1997, leg. M. Langurov, 2 ex. **New for Rep. of Macedonia.**

Aphidecta obliterated (Linn., 1758) - Bulgaria (HORION, 1961).

Anisosticta novemdecimpunctata novemdecimpunctata (Linn., 1758) - Bulgaria (NEDELKOV, 1909).

A. kobensis Lewis, 1869 - N. Korea, Pyongyang, 6-15.VIII.1982, leg. P. Beron et Al. Popov, 7 ex.

Naemia (Coleomegilla) maculata (DeGeer, 1705) - Mexico, Along river, San Pedro, 4.X.1993, leg. J. Pasteels, 1 ex.

Lemnia biplagiata biplagiata (Schwarz, 1808) - Vietnam, Hanoi, 21 - 22.IV.1989, leg. Z. Hubenov, 1 ex.

Menochilus sexmaculatus (Fabr., 1781) - Vietnam, Langson Prov., 83 - 100 km from Hanoi, 21.III.1989, leg. P. Beron, 4 ex.; Indonesia, E. Timor, v. Rilaka, 1.VII.1994, leg. P. Beron et V. Beshkov, 1 ex. **New for Indonesia.**

Micraspis discolor (Fabr., 1798) - Vietnam, Langson Prov., 21.III.1989, leg. P. Beron, 1 ex. (det. I. Kovář); Thailand, Phuket Island, Tonesai Waterfall, 17.XI.1984, leg. P. Beron et S. Andreev, 1 ex.; Burma, Rangoon, 6.XI.1984, leg. P. Beron et S. Andreev, 1 ex. **New for Vietnam and Thailand.**

M. univitata (Hope, 1837) - Nepal, Trisuli Basar, 560 m, 10.VII.1981, leg. P. Beron, 2 ex.

Paleoneda miniata (Hope, 1831) - Mexico, Cuanavaca, 11.X.1993, leg. J. Pasteels, 1 ex.

Ailocaria hexaspilota (Hope, 1851) - Mexico, Cuanavaca, 10.X.1993, leg. J. Pasteels, 1 ex.

Olla v-nigrum Muls., 1866 - Mexico, Yukatan, Merida, 12.II.1982, leg. P. Beron, 1 ex.

Bulaea lichatschovi (Hummel, 1827) - Bulgaria (NEDELKOV, 1909).

Tythaspis sedecimpunctata Linn., 1758 - Bulgaria (JOAKIMOV, 1904).

Halyzia sedecimguttata (Linn., 1758) - Bulgaria (JOAKIMOV, 1899).

Vibidia duodecimguttata (Poda, 1761) - Bulgaria (JOAKIMOV, 1904); N. Korea, Pyongyang-pykdo, 700 m, 13-14.VIII.1982, leg. P. Beron et Al. Popov, 3 ex.

Psyllobora vigintiduopunctata (Linn., 1758) - Bulgaria (JOAKIMOV, 1904); Rep. of Macedonia, Galichitsa Mts., 1000-1100 m, 18.VI.1994, leg. J. Kolarov, 2 ex.

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Преглед на видовете от сем. *Coccinellidae* (*Coleoptera*), съхранявани в колекциите на Националния природонаучен музей в София

Васила ЙОРДАНОВА

(Резюме)

В Националния природонаучен музей при БАН (София) се съхраняват 117 определени таксона (114 вида и 3 подвида) от сем. *Coccinellidae* от България и други страни. От тях 77 вида са от България, 56 са чуждоземните. Видовете таксони, съобщени за пръв път са както следва: България - 4; Северна Корея - 3; Македония, Албания, Турция, Непал, Тайланд и Виетнам - по 2; Индия, Шри Ланка и Индонезия - по 1.